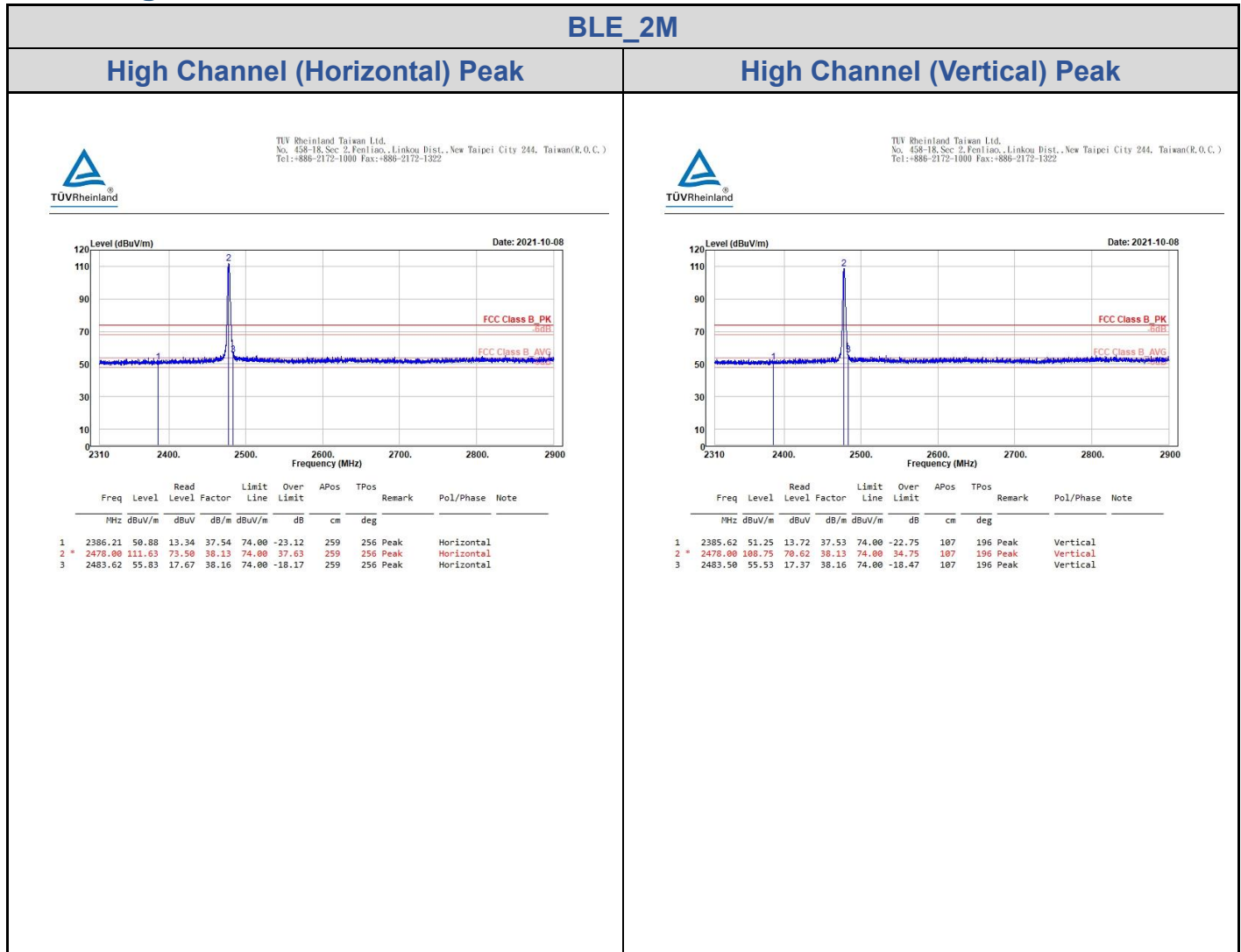


Appendix C: Test Results of Radiated Spurious Emissions by PCB

Antenna (ECC)

Band Edges, 2.31GHz ~ 2.9GHz



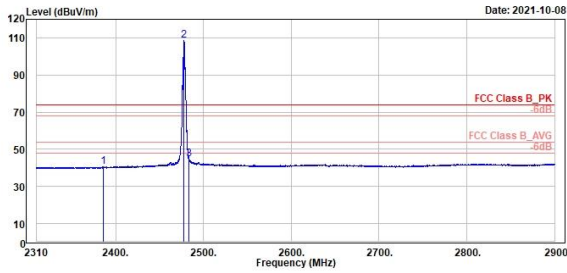
BLE_2M

High Channel (Horizontal) Average

High Channel (Vertical) Average



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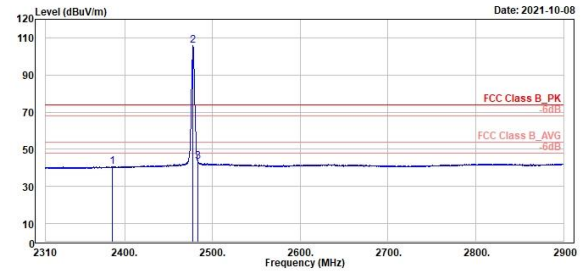


1	2	3
Level	Read Level	Factor
dBuV/m	dBuV	dB/m
40.44	2.90	37.54
108.58	70.45	38.13
44.93	6.77	38.16

Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
dBuV/m	dB	cm	deg			
54.00	-13.56	259	256	Average	Horizontal	
54.00	54.58	259	256	Average	Horizontal	
54.00	-9.07	259	256	Average	Horizontal	



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1	2	3
Level	Read Level	Factor
dBuV/m	dBuV	dB/m
40.57	3.04	37.53
105.81	67.68	38.13
43.45	5.29	38.16

Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
dBuV/m	dB	cm	deg			
54.00	-13.43	187	196	Average	Vertical	
54.00	51.81	187	196	Average	Vertical	
54.00	-10.55	187	196	Average	Vertical	

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

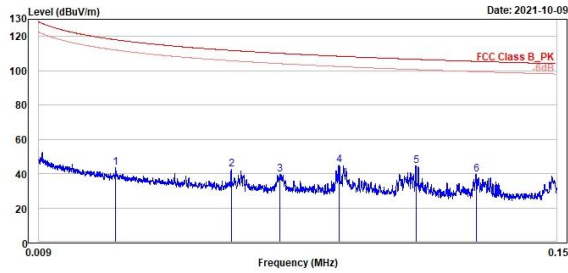
BLE_2M

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



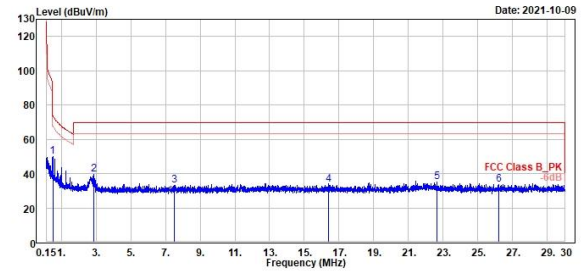
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.03	43.40	23.09	20.31	118.06	-74.66	100	190 QP	Open
2	0.06	42.38	22.09	20.29	111.83	-69.45	100	85 QP	Open
3	0.07	39.49	19.22	20.27	110.13	-70.64	100	162 QP	Open
4	0.09	44.87	24.61	20.26	108.43	-63.56	100	158 QP	Open
5	0.11	44.46	24.23	20.23	106.64	-62.18	100	156 QP	Open
6	0.13	39.78	19.57	20.21	105.45	-65.67	100	172 QP	Open



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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.51	49.78	29.66	20.12	73.53	-23.75	100	49 QP	Open
2	2.88	39.45	19.28	20.17	69.50	-30.05	100	166 QP	Open
3	7.53	32.96	12.65	20.31	69.50	-36.54	100	258 QP	Open
4	16.38	33.82	13.36	20.46	69.50	-35.68	100	246 QP	Open
5	22.63	34.92	14.40	20.52	69.50	-34.58	100	268 QP	Open
6	26.18	33.57	13.02	20.55	69.50	-35.93	100	59 QP	Open

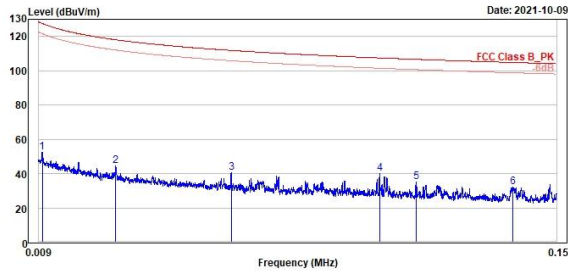
BLE_2M

High Channel (Close) 9kHz~150kHz

High Channel (Close) 150kHz~30MHz



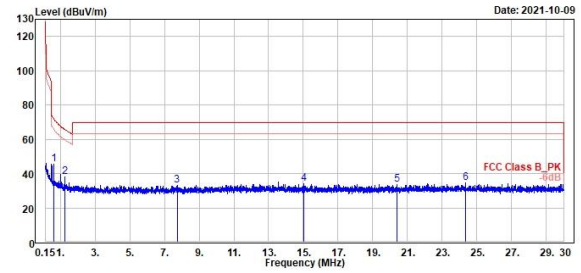
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	52.23	32.26	19.97	127.60	-75.37	100	166 QP	Close
2	0.03	44.29	23.98	20.31	118.06	-73.77	100	170 QP	Close
3	0.06	40.52	20.23	20.29	111.83	-71.31	100	148 QP	Close
4	0.10	39.83	19.59	20.24	107.44	-67.61	100	87 QP	Close
5	0.11	35.18	14.95	20.23	106.63	-71.45	100	203 QP	Close
6	0.14	31.96	11.76	20.20	104.00	-72.04	100	91 QP	Close



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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.63	45.27	25.15	20.12	71.65	-26.30	100	190 QP	Close
2	1.26	37.99	17.78	20.21	65.61	-27.62	100	198 QP	Close
3	7.73	33.16	12.85	20.31	69.50	-36.34	100	62 QP	Close
4	15.05	34.00	13.56	20.44	69.50	-35.50	100	120 QP	Close
5	20.40	33.45	12.95	20.50	69.50	-36.05	100	95 QP	Close
6	24.36	34.36	13.03	20.53	69.50	-35.14	100	240 QP	Close

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

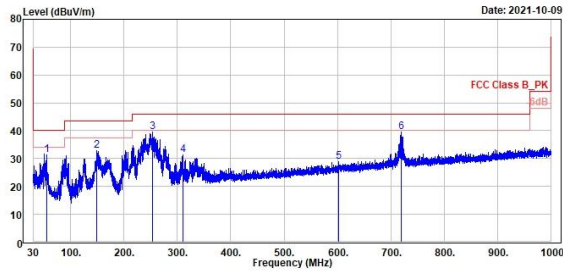
BLE_2M

High Channel (Horizontal)

High Channel (Vertical)



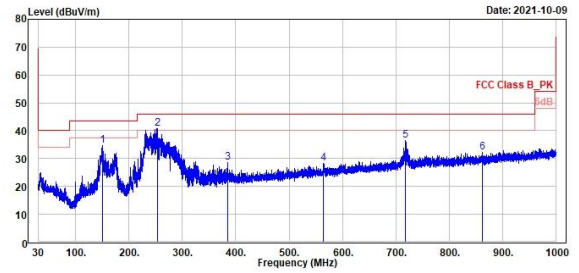
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	54.54	31.47	39.48	-8.01	46.00	-8.53	200	106	QP	Horizontal	
2	148.83	32.74	40.30	-7.56	43.50	-10.76	300	97	QP	Horizontal	
3	252.71	39.51	47.61	-8.10	46.00	-6.49	200	281	QP	Horizontal	
4	318.14	31.47	37.67	-6.20	46.00	-14.53	100	296	QP	Horizontal	
5	601.62	28.82	30.11	-1.29	46.00	-17.18	300	256	QP	Horizontal	
6	720.06	39.42	36.88	0.54	46.00	-6.50	200	149	QP	Horizontal	



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	150.96	34.76	42.13	-7.37	43.50	-0.74	100	129	QP	Vertical	
2	253.00	40.81	48.90	-8.09	46.00	-5.19	100	143	QP	Vertical	
3	384.63	28.55	33.02	-4.47	46.00	-17.45	100	82	QP	Vertical	
4	564.57	28.17	30.19	-2.02	46.00	-17.83	165	360	QP	Vertical	
5	717.92	36.45	35.95	0.50	46.00	-9.55	200	188	QP	Vertical	
6	862.75	32.16	29.36	2.80	46.00	-13.84	200	185	QP	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

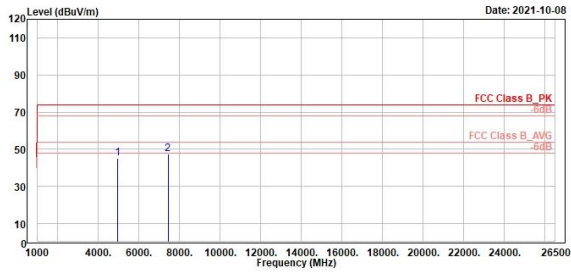
BLE_2M

High Channel (Horizontal)

High Channel (Vertical)



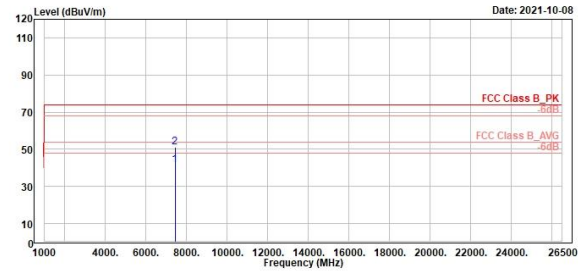
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4956.00	45.28	54.74	-9.46	74.00	-28.72	300	347 Peak	Horizontal	
2	7434.00	47.47	54.73	-7.26	74.00	-26.53	200	164 Peak	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	7434.00	41.45	48.71	-7.26	54.00	-12.55	109	291 Average	Vertical	
2	7434.00	51.28	58.54	-7.26	74.00	-22.72	189	291 Peak	Vertical	

Test Results of Radiated Spurious Emissions by PCB Antenna (Non-ECC)

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

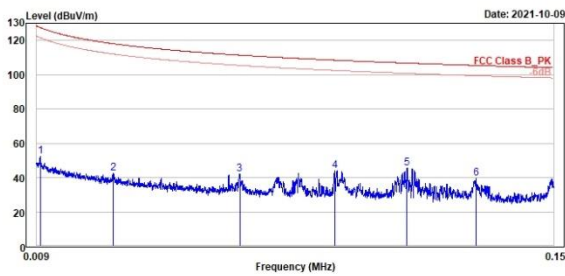
BLE_2M

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



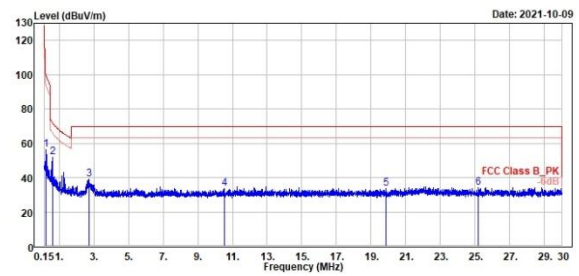
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	0.01	52.57	32.60	19.97	127.55	-74.98	100	176	QP	Open	
2	0.03	42.66	22.35	20.31	118.05	-75.39	100	274	QP	Open	
3	0.06	42.14	21.85	20.29	111.42	-69.28	100	168	QP	Open	
4	0.09	43.82	23.56	20.26	108.48	-64.66	100	172	QP	Open	
5	0.11	45.62	25.39	20.23	106.77	-61.15	100	162	QP	Open	
6	0.13	39.31	19.10	20.21	105.40	-66.09	100	168	QP	Open	



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	0.25	56.13	35.98	20.15	99.49	-43.36	0	0	QP	Open	
2	0.63	51.70	31.58	20.12	71.65	-19.95	100	137	QP	Open	
3	2.73	39.24	19.08	20.16	69.50	-30.26	100	276	QP	Open	
4	10.52	33.72	13.36	20.36	69.50	-35.78	100	240	QP	Open	
5	19.87	33.82	13.33	20.49	69.50	-35.68	100	312	QP	Open	
6	25.18	34.35	13.00	20.55	69.50	-35.15	100	119	QP	Open	

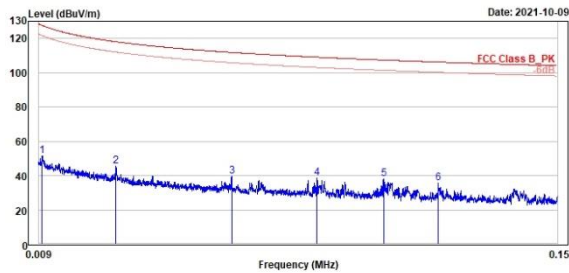
BLE_2M

High Channel (Close) 9kHz~150kHz

High Channel (Close) 150kHz~30MHz



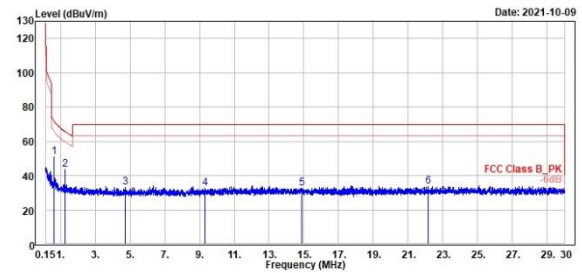
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	51.37	31.39	19.98	127.71	-76.34	100	220 QP	Close
2	0.03	45.32	25.01	20.31	118.05	-72.73	100	144 QP	Close
3	0.06	39.51	19.22	20.29	111.83	-72.32	100	111 QP	Close
4	0.08	38.70	18.44	20.26	109.05	-70.35	100	111 QP	Close
5	0.10	38.09	17.85	20.24	107.36	-69.27	100	98 QP	Close
6	0.12	35.56	15.34	20.22	106.19	-70.63	100	100 QP	Close



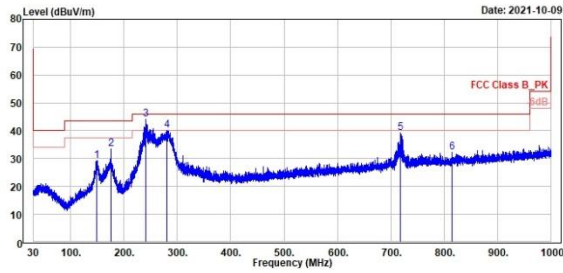
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.62	51.10	30.99	20.11	71.69	-20.59	100	118 QP	Close
2	1.25	43.52	23.31	20.21	65.66	-22.14	100	118 QP	Close
3	4.71	33.22	12.94	20.28	69.50	-36.28	100	239 QP	Close
4	9.32	32.51	12.16	20.35	69.50	-36.99	100	211 QP	Close
5	14.86	32.61	12.17	20.44	69.50	-36.89	100	327 QP	Close
6	22.16	33.66	13.14	20.52	69.50	-35.84	100	346 QP	Close

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz
BLE_2M
High Channel (Horizontal)
High Channel (Vertical)

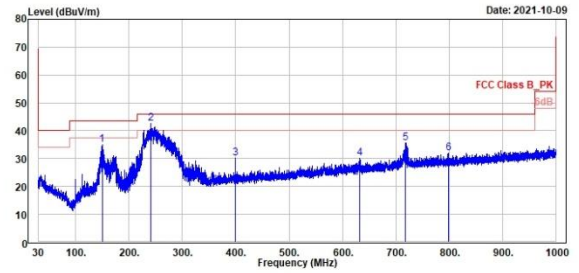

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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	149.31	29.12	36.67	-7.55	43.50	-14.38	200	236	QP	Horizontal	
2	175.79	33.60	41.51	-7.91	43.50	-9.90	200	195	QP	Horizontal	
3 !	240.01	43.96	52.27	-8.31	46.00	-2.04	100	113	QP	Horizontal	
4 !	280.65	40.00	46.92	-6.92	46.00	-6.00	200	351	QP	Horizontal	
5	717.92	39.29	38.79	0.50	46.00	-6.71	100	150	QP	Horizontal	
6	814.34	32.14	30.08	2.06	46.00	-13.86	200	304	QP	Horizontal	



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	149.41	34.05	42.39	-7.54	43.50	-0.65	100	82	QP	Vertical	
2 !	240.78	42.56	50.86	-8.30	46.00	-3.44	200	24	QP	Vertical	
3	399.18	30.17	34.38	-4.21	46.00	-15.83	100	1	QP	Vertical	
4	633.15	30.01	30.84	-0.83	46.00	-15.99	100	211	QP	Vertical	
5	717.44	35.69	35.20	0.49	46.00	-10.31	200	188	QP	Vertical	
6	798.24	31.97	30.19	1.78	46.00	-14.03	100	113	QP	Vertical	

Test Results of Radiated Spurious Emissions by PCB Antenna (ECC)_2nd Source

Band Edges, 2.31GHz ~ 2.9GHz

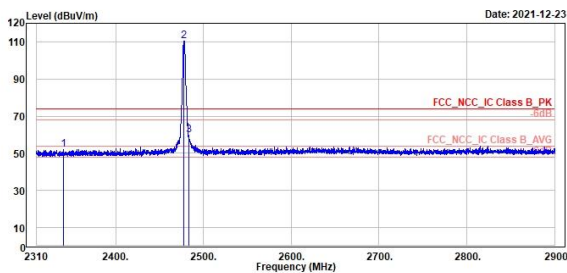
BLE_2M

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



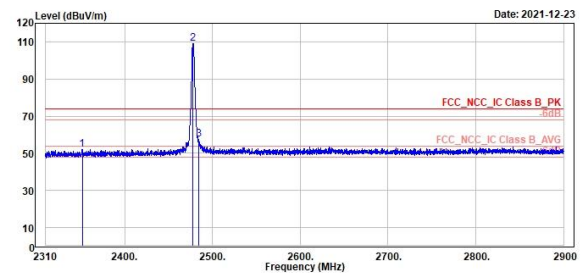
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1	2	3	4	5	6	7	8	9	10	11	12
1	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note	
1	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2348.33	52.09	14.65	37.44	74.00	-21.91	267	216 Peak	Horizontal		
2 *	2475.00	110.42	72.81	37.61	74.00	36.42	267	216 Peak	Horizontal		
3	2483.46	59.93	22.33	37.60	74.00	-14.07	267	216 Peak	Horizontal		



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1	2	3	4	5	6	7	8	9	10	11	12
1	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note	
1	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2351.77	52.08	14.88	37.28	74.00	-21.92	185	168 Peak	Vertical		
2 *	2475.00	108.96	71.27	37.69	74.00	34.96	185	168 Peak	Vertical		
3	2484.52	57.39	19.65	37.74	74.00	-16.61	185	168 Peak	Vertical		

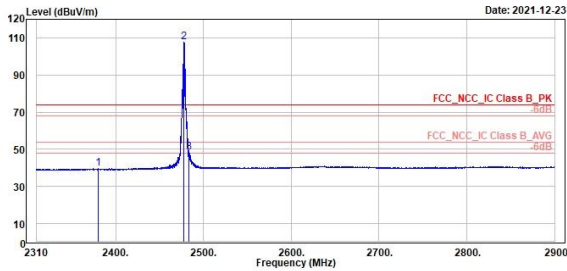
BLE_2M

High Channel (Horizontal) Average

High Channel (Vertical) Average



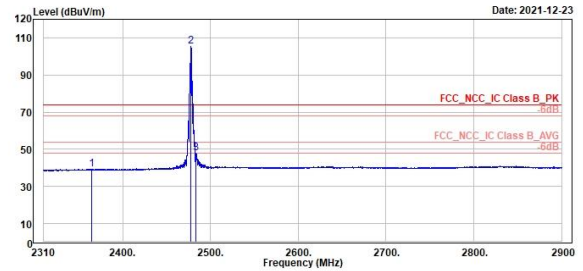
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2380.33	39.54	1.97	37.57	54.00	-14.46	267	216	Average	Horizontal	
2 *	2478.00	107.48	69.87	37.61	54.00	53.48	267	216	Average	Horizontal	
3 !	2483.81	48.42	10.83	37.59	54.00	-5.58	267	216	Average	Horizontal	



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2364.75	39.40	2.11	37.29	54.00	-14.60	185	168	Average	Vertical	
2 *	2478.00	105.46	67.77	37.69	54.00	51.46	185	168	Average	Vertical	
3	2483.46	47.78	10.05	37.73	54.00	-6.22	185	168	Average	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

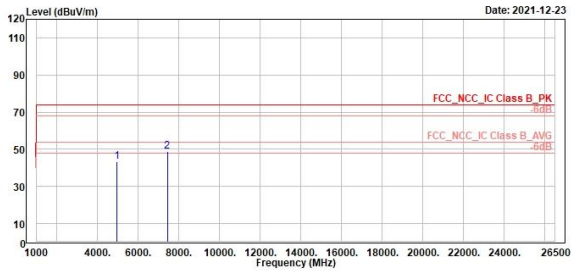
BLE_2M

High Channel (Horizontal)

High Channel (Vertical)



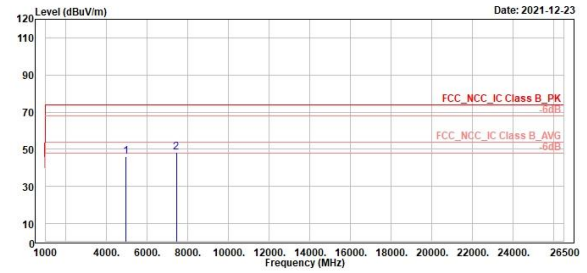
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4956.00	43.23	52.60	-9.37	74.00	-30.77	180	56 Peak	Horizontal	
2	7434.00	48.76	55.92	-7.16	74.00	-25.24	180	251 Peak	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4956.00	46.14	55.90	-9.76	74.00	-27.86	296	359 Peak	Vertical	
2	7434.00	48.44	55.94	-7.50	74.00	-25.56	180	312 Peak	Vertical	

Test Results of Radiated Spurious Emissions by PCB Antenna (Non-ECC)_2nd Source

Band Edges, 2.31GHz ~ 2.9GHz

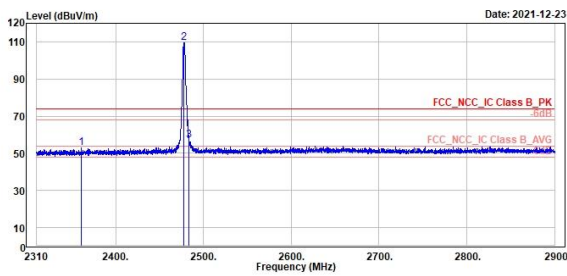
BLE_2M

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



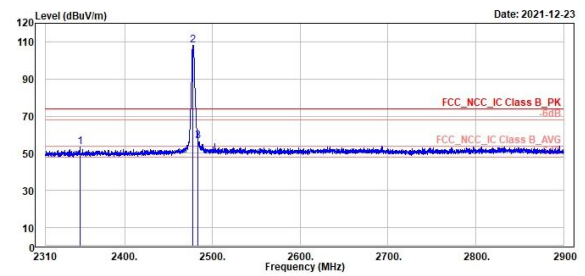
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1	2	3
Level	Level	Level
Factor	Factor	Factor
Line	Line	Line
Limit	Limit	Limit
Over	Over	Over
Limit	Limit	Limit
Apos	Apos	Apos
TPos	TPos	TPos
Remark	Remark	Remark
Pol/Phase	Pol/Phase	Pol/Phase
Note	Note	Note
2369.62	2475.00	2483.81
52.71	109.68	57.01
15.20	72.07	19.42
37.51	37.61	37.59
74.00	74.00	74.00
-21.29	35.68	-16.99
103	103	103
215	215	215
Peak	Peak	Peak
Horizontal	Horizontal	Horizontal



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1	2	3
Level	Level	Level
Factor	Factor	Factor
Line	Line	Line
Limit	Limit	Limit
Over	Over	Over
Limit	Limit	Limit
Apos	Apos	Apos
TPos	TPos	TPos
Remark	Remark	Remark
Pol/Phase	Pol/Phase	Pol/Phase
Note	Note	Note
2348.94	2475.00	2483.46
53.17	108.29	56.66
15.91	78.60	18.93
37.26	37.69	37.73
74.00	74.00	74.00
-20.83	34.29	-17.34
104	104	104
175	175	175
Peak	Peak	Peak
Vertical	Vertical	Vertical

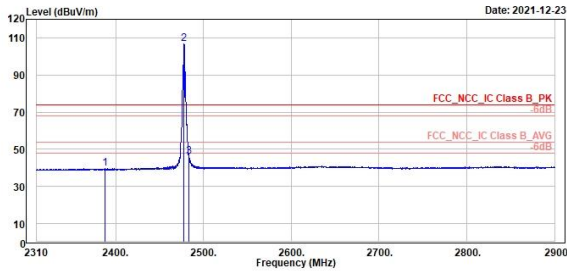
BLE_2M

High Channel (Horizontal) Average

High Channel (Vertical) Average



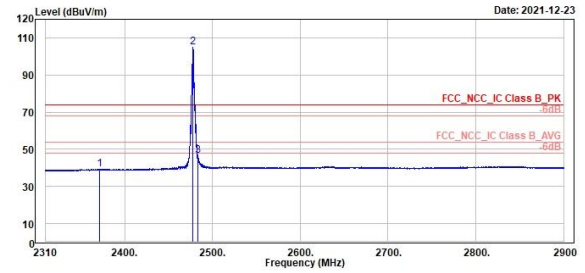
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1	2	3
2387.53	2475.00	2483.70
39.58	106.70	46.19
1.90	69.09	8.59
37.60	37.61	37.60
54.00	54.00	54.00
-14.42	52.70	-7.81
103	103	103
215	215	215
Average	Average	Average
Horizontal	Horizontal	Horizontal



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1	2	3
2371.71	2475.00	2483.46
39.29	105.05	46.39
1.99	67.36	8.66
37.30	37.69	37.73
54.00	54.00	54.00
-14.71	51.05	-7.61
104	104	104
175	175	175
Average	Average	Average
Vertical	Vertical	Vertical

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

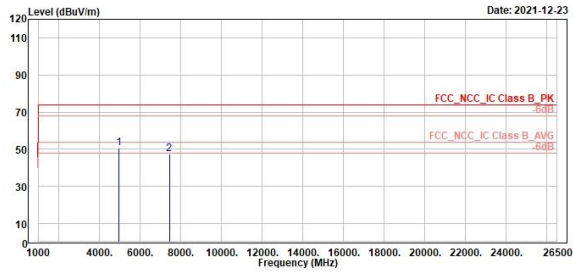
BLE_2M

High Channel (Horizontal)

High Channel (Vertical)



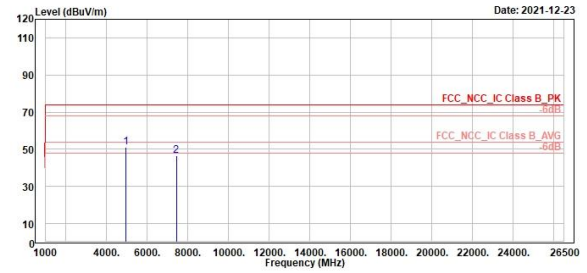
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4956.00	50.42	59.79	-9.37	74.00	-23.58	180	329 Peak	Horizontal	
2	7434.00	47.42	54.58	-7.16	74.00	-26.58	180	227 Peak	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4956.00	50.93	60.69	-9.76	74.00	-23.07	300	85 Peak	Vertical	
2	7434.00	46.73	54.23	-7.50	74.00	-27.27	200	110 Peak	Vertical	